

Incoming
S0150097
TASKID# 2406

5/15/08

Sirs;

This is in reply to your letter of 5-7-2008 concerning Deficient Notice of Intent Small Mining Operations S/0150097.

1. **FORMAT.** I have re submitted the revised notice using your forms
2. **FACILITIES.** The #9 incline on the 8 Ball #5 claim is not included as part of the disturbed area. I am currently negotiating with another mining company and they are going to either lease or purchase that mining claim. Either way it is not included in my mining plan. At some time in the future mining operations by either of our mining companies may connect these two mines. But for now the #9 incline is not part of the disturbed area of my mining plan.

The existing shaft is on the 8 Ball #1 mining claim and is shown on the enclosed map of the mining claims.

The mine proposal that I have submitted to UDOGM does not differ from that submitted to the BLM in Price, for this reason. My mine proposal to UDOGM is a Revised Notice. The BLM currently has no Mining Plan, because they will not allow a revised or amended Mining Plan. I have prepared a new Mining Plan that will be submitted to the BLM as soon as UDOGM approves my Revised Notice.

I have enclosed the following to assist your staff in evaluating My Revised Notice;

- a. A letter to explain my request for variance on Item 10 Topsoil. Also included a set of 3 photographs taken on my proposed disturbed area. These photos visually confirm my assertion that the mining waste dumps will support vegetation without being covered by topsoil which in any case does not exist on the mine site.
- b. A copy of my mining plan (not a Complete copy) that will be submitted to the Price BLM Field Office after my UDOGM plan has been approved.
- c. A copy of the Reclamation Cost Estimation Summary Sheet and attachments itemizing the cost of reclamation of the 2 1/2 acre disturbed area. As you know this is not what it will cost me to do the reclamation, which will be much less. It is the cost of contacting out the reclamation if I were to default, which will not happen. The total cost of reclamation under the BLM plan will be \$4,206.50
- d. A map showing the 8Ball mining claims and the associated existing underground mine excavations, in black.

A diagram of the proposed 2 1/2 acre disturbed area.

A diagram showing the 2 inclines that will need to be reclaimed and 4 existing waste dumps that will be used during mining operations. It also shows the disposition of all of the waste rock that we will produce during those mining operations.

Thank You,

Ted Thompson

Ted Thompson

Carnotite LLC

775 E. Claybourne Ave.

Salt Lake City, UT 84106

801-486-8345

RECEIVED

MAY 19 2008

080004

DIV. OF OIL, GAS & MINING

This Section for DOGM Use:
Assigned DOGM File No.: S
DOGM Lead: _____
Permit Fee \$ _____ Ck # _____

**STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING**

1594 West North Temple Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291 Fax: (801) 359-3940

NOTICE OF INTENTION TO COMMENCE SMALL MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1987, and the General Rules as promulgated under the Utah Minerals Regulatory Program.

"Small Mining Operations" mining operations which have a disturbed area of five or less surface acres at any time.

I. GENERAL INFORMATION (Rule R647-3-104)

1. Name of Mine: Carnotite West

2. Legal name of entity (or individual) for whom the permit is being requested: _____

Carnotite LLC - Ted Thompson - Lee Thompson
Mailing Address: 775 E. Claybourne Ave.
City, State, Zip: Salt Lake City, UT 84106
Phone: 801-486-8345 Fax: 801-486-8345 Need Notice
E-mail Address: Carnotite LLC @ Yahoo

Type of Business: Corporation () LLC (X) Sole Proprietorship (dba) ()
Partnership () General _____ or _____ limited
Or:
Individual ()

Entity must be registered (and maintain registration) with the State of Utah, Division of Corporations (DOC) www.commerce.utah.gov.

Are you currently registered to do business in the State of Utah? ☒ Yes ☐ No

Entity # 6070570

If no, contact www.commerce.utah.gov to renew or apply.

Local Business License # _____ (if required)

Issued by: County _____ or City _____

3. Contact Person(s)

Name: Ted or Lee Thompson Title: Owners
Address: 775 E. Claybourne Ave
City, State, Zip: Salt Lake City, UT 84106
Phone: 801-486-8345 Fax: 801-486-8345 Need Notice
Emergency, Weekend, or Holiday Phone: Same
E-mail Address: Carnotite LLC @ Yahoo

Contact person to be notified for: permitting (X) surety (X) Notices (X) (please check all that apply)

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Name: Ted or Lee Thompson Title: Owners
Address: 775 E. Claybourne Ave
City, State, Zip: Salt Lake City, UT 84106
Phone: 801-486-8345 Fax: 801-486-8345 need notice
Emergency, Weekend, or Holiday Phone: Same
E-mail Address: Carnofite LLC @ Yahoo

Contact person to be notified for: permitting () surety () Notices () (please check all that apply)

Registered Utah Agent (as identified with the Utah Department of Commerce) (if individual leave blank):

Name: _____
Address: _____
City, State, Zip: _____
Phone: _____ Fax: _____
E-mail Address: _____

4. **If Business is a Sole Proprietor:**

Name of Owner: _____ Title: _____
Business Address: _____
City, State, Zip: _____
Phone: _____ Fax: _____
E-mail Address: _____

If Business is a Corporation:

Name of Officers: _____ Title: _____
_____ Title: _____
_____ Title: _____
_____ Title: _____

Headquarters Address: _____
City, State, Zip: _____
Headquarters Phone: _____ Fax: _____
E-mail Address: _____

If Business is a Limited Liability Company: Member Managed ■ Manager Managed ■

Name of 1st Member/Manager: Ted Thompson Title: Owner
Business Address: 775 E. Claybourne Ave
City, State, Zip: Salt Lake City, UT 84106
Phone: 801-486-8345 Fax: 801-486-8345 need notice
E-mail Address: Carnofite LLC @ Yahoo

Name of 2nd Member/Manager: Lee Thompson
Business Address: 775 E. Claybourne Ave.
City, State, Zip: Salt Lake City, UT 84106
Phone: 801-486-8345 Fax: 801-486-8345 need notice
E-mail Address: Carnofite LLC @ Yahoo

If Business is a Partnership:

Name of Partner: _____
Business Address: _____
City, State, Zip: _____
Phone: _____ Fax: _____
E-mail Address: _____

5. **Ownership of Land Surface:**

Private (Fee) ■ Public Domain (BLM) ■ National Forest (USFS) ■
State Trust Land/School Sections ■ State Sovereign Lands ■
Other (please describe): _____

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

6. **Ownership of Minerals:**

Private (Fee) ■ Public Domain (BLM) ■ National Forest (USFS) ■
State Trust Land/School Sections ■ State Sovereign Lands ■
Other (please describe): _____

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

Name _____ Address _____

BLM Lease or Project File Number(s) and/or USFS assigned Project Number(s): _____

UMC # 375542 - # 375543 - # 375544 - # 375545

BLM Claim Numbers UMC # 375542 - # 375543 - # 375544 - # 375545

Utah State Lease Number(s): _____

Name of Lessee(s) _____

7. **Have the above surface and mineral owners been notified in writing?**

Yes _____ No _____

If no, why not? _____

*Please be advised that if State Trust Lands are involved, notification to the Division of Oil, Gas and Mining alone does not satisfy the notification requirements of Mineral Leases upon State Trust Lands. Exploration or mining activity on State Trust Lands requires a minimum of 60 days notice to the Trust Lands Administration **prior** to commencing any activities. Please contact the School Institutional Trust Lands Administration (SITLA) at (801) 538-5508 for notification requirements.*

8. **Does the Entity have legal right to enter and conduct mining operations on the land covered by this notice?** Yes X No _____

II. **PROJECT LOCATION & MAP** (Rule R647-3-105)

1. **Project Location** (legal description):

County(ies): Emery

____ 1/4, of NE 1/4, of NE 1/4: Section: 28 Township: 21 S. Range: 14 E.
____ 1/4, of NW 1/4, of NW 1/4: Section: 27 Township: 21 S. Range: 14 E.
____ 1/4, of SW 1/4, of SW 1/4: Section: 22 Township: 21 S. Range: 14 E.

UTM East _____ (if known) UTM North _____ (if known)

Name of Quad Map for Location: Spotted Wolf Canyon - Jessies Twist

2. **Location and Operations maps** must be plotted at a scale to accurately identify locational landmarks and operations details. All maps must include a north arrow, scale, appropriate labels, and title box including the mine name, township, range and section.

a. The **general location map** must be the scale of a USGS 7.5 minute series map or equivalent (1"=2000') and identify new or existing access roads.

b. The **operations map** (1"=200' or other scale as determined necessary by the Division) must be labeled and identify:

i. The area to be disturbed;

ii. The location of any existing or proposed operations including access roads, drill holes, trenches, pits, shafts, cuts, or other planned activities; and

iii. Any adjacent previous disturbance for which the operator is not responsible.

(Contact the Division for a list of consultants and land surveyors for mapping assistance.)

3. The proposed (5 acre or less) disturbed area (including access/haul roads) should be marked in the field ON THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye.

III. **OPERATION PLAN** (Rule R647-3-106)

1. **Type of mining:** Surface ☐ Underground ☒

2. **Mineral(s) to be mined:** Uranium, Vanadium

3. **Amount of material** to be extracted, moved, or proposed to be moved: _____

20,000 Tons Uranium to Mill - 10,000 Tons waste to waste dumps

4. Will any **water, liquid chemicals, reagents, or other solutions** be used, produced or discharged as part of the mining or milling process?

Yes ☒ No ☐ If yes, please describe (add extra pages if needed) _____
Water used for drilling - from underground mine areas
Water for culinary use - from Green River, Utah

5. Provide a brief **description of the proposed mining operation** and onsite processing facilities (add extra pages if necessary). Underground Uranium mining room and pillar method.

6. ■ **New Road(s):** Length NONE (ft) Width _____ (ft)
7. ■ **Improved Road(s):** Provide a description of the improvements that need to be made to existing roads to access the site, including the Length 1,500 (ft) and Width 15 (ft) of improvements.
8. Total project surface **acreage to be disturbed:** 2 1/2 (acres) PLEASE SPECIFY
EXACT ACREAGE - (this will be used to determine surety bond amount – see #VI).
9. Proposed **startup date** (month, year) After all Permits received 6-12 months
10. Proposed **completion date**, if known (month, year) " " " 3-5-years

IV. OPERATION AND RECLAMATION PRACTICES (Rule R647-3-107, 108 & 109)

The reclamation and operation obligation is to keep the area clean and safe, minimize hazards to public safety, return the land to a useful condition, and reestablish at least 70 percent of the premining vegetative ground cover. To accomplish this, the Permittee / Operator will need to perform reclamation concurrently, or at the completion (within one (1) year) of mining. Please refer to The Practical Guide to Reclamation in Utah, available at www.ogm.utah.gov.

1. *Keep the mining operation in a safe, clean, and environmentally stable condition.*
2. *Permanently seal all shafts and tunnels to prevent unauthorized or accidental entry.*
3. *Plug drill holes with a five foot cement surface plug. Holes that encounter fluids are to be plugged in the subsurface to prevent aquifer contamination.*
4. *Construct berms, fences, or barriers, when needed, above highwalls and excavations.*
5. *Remove, isolate, or neutralize all toxic materials in a manner compatible with federal and state regulations.*
6. *Remove all waste or debris from stream channels.*
7. *Dispose of any trash, scrap metal, wood, machinery, and buildings.*
8. *Conduct mining activities so as to minimize erosion and control sediment.*
9. *Reclaim all roads that are not part of a permanent transportation system.*
10. *Stockpile topsoil and suitable overburden prior to mining.*
11. *Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour, and redistribute the topsoil and suitable overburden.*
12. *Properly prepare seedbed to a depth of six inches by pocking, ripping, discing, or harrowing. Leave the surface rough.*
13. *Reseed disturbed areas with adaptable species. (The Division recommends a mixture of species of grass, forb, and browse seed, and will provide a specific species list if requested.)*
14. *Plant the seed with a rangeland or farm drill, or broadcast the seed. Fall is the preferred time to seed.*

Any variance request must be approved in writing by the Division

Are variances being requested? ☒ Yes ☐ No

10
Item #

Applicable Rule # (i.e. R647-3-109.10 (if you did not want trenches & pits reclaimed))

Justification: No Top Soil exists on the mine site

Alternate methods or measure to be utilized: plant seed directly on reclaimed
sloped waste dumps. Photo evidence dumps support vegetation.

Item #

Applicable Rule #

Justification: _____

Alternate methods or measure to be utilized: _____

Item #

Applicable Rule #

Justification: _____

Alternate methods or measure to be utilized: _____

VI. SURETY (Utah Code Ann. §40-8-7(1)[c])

The reclamation surety amount is based on the nature, extent and duration of operations. The amounts are based on data from current large mine surety and are used as a general guide, along with actual site conditions. Reclamation surety for small mines is reviewed every three (3) or five (5) years and adjusted as necessary for inflation/deflation based upon acceptable Costs Index. **Contact the Division for the dollar amount required for a three (3) or five (5) year period for this project.**

☒ Certificate of Deposit ☒ Letter of Credit
 ☐ Surety Bond
 ☐ Cash (certified funds)

☐ Other _____ (please identify) ☒ undecided

VII. PERMIT FEE (Utah Code Ann. §40-8-7(1)(i))

A permittee's authorization under a notice of intention to conduct small mining operations shall require the paying of permit fees as authorized by the Utah Legislature (R647-3-102.5). Permit fees are assessed to new and existing small mining operations, and annually thereafter, until the project disturbances are successfully reclaimed by the Permittee / Operator and released by the Division.

Small Mine Notices require a \$150.00 fee, which must accompany this application, or the Division cannot process it.

VIII. SIGNATURE REQUIREMENT

(Please check the box if applicable and place your initials on the line provided)

- ☒ I have enclosed the required permit fee. *This is an amendment of S/DIS/0097 Fee paid*
- ☐ I have enclosed/requested a Reclamation Contract (Form MR-RC) and the appropriate reclamation surety amount or have made arrangements as to when the surety will be furnished.
- ☐ I understand that I am not authorized to create any surface disturbance until the surety amount is posted and approved in writing from the Division of Oil, Gas and Mining and any other authorized regulatory agency.

CERTIFICATION

I state under penalty of perjury under the laws of the state of Utah and the United States of America that:

- I have read this form and declare the information, statements and/or documentation are true, correct and complete to the best of my knowledge and belief; AND
- I commit to the reclamation of the aforementioned small mining project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.
- This certification must be signed by:** (1.) an executive officer if the applicant is a corporation; (2.) a partner if applicant is a partnership (general or limited); (3.) the owner if applicant is a sole proprietorship; **or** (4.) the member or manager if applicant is a limited liability company.

Signature: Ted Thompson Date: 5-14-2008
Name (typed or printed): Ted Thompson
Title/Position (if applicable): Owner

5/15/08

Request for Variance, Item #10

The request is made because there is not a pound of topsoil on the proposed disturbed area. 20% of the 2/12 acres is solid rock, 30% is clay and shale, neither of which has any topsoil at all on them. The remaining 50% is covered completely by waste rock from past mining activities and Emery County roads. As the diagram enclosed with The Revised Notice for the Carnotite West Mine S0150097 shows the proposed disturbed area is currently heavily covered by existing waste rock dumps and scattered piles of waste rock. Many of the existing waste dumps have stands of native vegetation on them, and the waste rock is just as fertile as the natural rock and shale formations. The attached photographs show this is true. *Photo #1* shows vegetation that has established itself on 40 year old waste dumps. *Photo #2* also shows natural vegetation on some of the existing scattered waste dumps on the proposed disturbed area. *Photo #3* shows the complete lack of vegetation on the area marked as undisturbed area #2 on the mine site diagram. This visually demonstrates that the waste rock dumps themselves are every bit as fertile and receptive of seeding as any of the natural formations on the disturbed area. For the purpose of reclamation seeding directly onto the prepared (by discing) waste rock dumps should prove adequate.

There are many small existing waste dumps and small piles of scattered waste rock over most of the proposed disturbed area. Most of these waste rock piles have been documented with photos and during reclamation only the 2 inclines and 4 designated waste rock dumps that we use will be reclaimed by Carnotite LLC. The existing Emery County roads and existing waste rock dumps which presently have vegetation growing on them will not be sloped or seeded by Carnotite LLC as part of our reclamation plan.

late #1



Photo #1



Photo #2



Photo #3

Mining Plan For The Carnotite West Mine

4.3.2.1 OPERATOR INFORMATION:

COMPANY:
CARNOTITE LLC
FED MINE ID #42-02493
EIN #26-1815108
TED THOMPSON
775 E. CLAYBOURNE AVE.
SALT LAKE CITY, UT 84106
801-486-8345

CARNOTITE WEST MINE:
SPOTTED WOLF CANYON QUAD
BUCK MASTER DRAW
NE ¼ SEC 28 T21S R14E
EXIT #147 I-70
NORTH 2 ½ MILES ON EM1029
8 BALL #3 UMC #375542

4.3.2.2 DESCRIPTION OF OPERATIONS:

The Mine;

The mine incline and portal (#8 Dino) involved is a pre-existing Uranium mine in the San Rafael mining district, Emery county, Utah. When mining operations begin the mine will be known as the Carnotite West mine. The area of our proposed surface disturbance has been heavily, if not totally covered with piles of waste rock from past mining activities. Carnotite LLC in compliance with BLM mandated UUD policy will keep all of our impact confined to areas of past disturbance, thus creating no unnecessary or undue degradation of the site. From Green River, Utah, travel 14 miles West on I-70, then 2 1/2 miles north on the county road EM1029. The # 8 incline is on our 8 Ball #3 mining claim. It enters the existing mines 1500 feet west of the county road. There is a 4' high white PVC claim marker 300' north of the turnout to the mine. Carnotite West mine will encompass a block of 4 mining claims, 8 Ball #1 UMC #375542 through 8 Ball #4 UMC #375545. An incline parallel to the #8 incline will be constructed for an emergency exit as required by MSHA. This mining area is known locally as Four Corners and has been mined extensively for Uranium and Vanadium for over 100 years. The Uranium ore is found in the Salt Wash member of the Morrison formation.

Surface Facilities;

The mining to be done by Carnotite LLC will utilize the exiting Emery county road EM1029 for access. This road and the branch road to the mine site are existing Emery County roads and Emery County officials have indicated that they must remain open after mining activities have ended and therefore will not be reclaimed. All surface disturbances will be confined to areas surrounding the #8 incline that have been affected by past mining activities. Carnotite LLC plans to contain all surface use within an area of 500 feet X 400 feet. This area surrounds the mine portal. Two acres of that total are rock outcrops which will not be used or disturbed in any way. Taking in account waste from past mining, this makes a total of 21/2 acres of surface use, which will then require reclamation.

Surface Facilities Continued;

Surface facilities as described below are shown on attached diagram #1.

1. There is an office area, for two small trailers. One is for an office and the other will be for the miner's change room. These are both camping type trailers that are easily towed by pickup trucks. The tires will remain on both of the trailers for the life of the project.
2. Two portable toilets will be next to the trailers. Waste gray water from the trailers will be collected in a 1000 gallon tank mounted on a small trailer and taken to Green River to be disposed of into the city sewer system.
3. Two 1000 gallon water tanks for culinary water with an associated pipe to the trailers.
4. An area 20 feet X 50 feet in size for a 1,000 gallon fuel tank. The fuel tank will have a seamless fabric lined containment basin constructed under it.
5. A 750cfs generator and a compressor are next to the fuel tank.
6. A 36" diameter fan for underground ventilation.
7. A shipping area 100 feet by 200 feet west of the mine portal to be used for temporary storage and loading of the Uranium ore.
8. The explosive magazine is to the Northwest of the portal surrounded by berms and accessed by an existing road. The magazine is out of sight from the EM1029 road.
9. An area in the SW corner, not to exceed 1 acre will be for waste rock dumps. There are currently 2 existing waste dumps, which will be expanded by our mining operations.

Mining Operations;

Underground Uranium mining will start after all required permits have been obtained.

The total area of surface disturbance will be less than 2 1/2 acres. An attached map #1 shows existing underground excavations in black and proposed future excavations in red. We will work day shift only, Monday through Friday 8am to 5pm. Three miners and one surface employee will be used to start mining activities. Eventually two other miners and one mechanic may be hired. The mining will be underground mining using the room and pillar method. Ore will be mined by drilling ore headings using air drills with jack legs. The drill holes will be loaded with primers, dynamite and ANFO. All detonators will be non-electric millisecond delays. After blasting, the Uranium ore will be mucked out using conventional underground diesel powered, rubber tired front-loaders and hauled to the surface in diesel powered, rubber tired mine trucks. Back control will be with 6 foot split set rock bolts installed through metal plates and mats installed as needed. When needed for safety, chain link fencing or roof screening may also be installed.

The existing incline on 8 Ball #3 will be rehabilitated and used for access to the underground mining area. At the same time a small 9 foot wide parallel incline into the mine will be made to satisfy MSHA requirements for a second emergency exit. Existing underground workings will be explored and ore headings will be developed from them.

Mining Operations Continued;

An estimated 20,000 tons of ore will be mined during a 3 to 5 year period. The ore will all be loaded on semi end dump trucks and then transported for sale at the Denison Uranium mill at White Mesa, Utah. Approximately 30,000 tons of waste rock will be produced at the same time and permanently stored on site. 20,000 tons of the waste rock will be back filled into abandoned underground headings. The other 10,000 tons will be placed on the existing waste dump area.

Ventilation will be from a 36" fan mounted at the portal of 8 Ball #3. Ventilation will be carried to the mine working faces with a 36" vent bag. If found to be open, exhaust air from the mine will exit from a small shaft on 8 Ball #1 and a calyx pipe located on 8 Ball #2. Radon gas levels in all working areas will be monitored bi-weekly in accordance to MSHA regulations. The miner's radon exposure records will be kept in the mine office. It will be Carnotite LLC's policy that no trash will be allowed to accumulate underground or on the surface of the mine site.

Equipment to be used for mining operations;

2 – Small camper trailers	on the surface	
1 – Trailer with a 1000 gallon waste water tank	“	“
2 – 1000 gallon water tanks	“	“
1 – 2yd Track loader	“	“
1- 750cfs Compressor	“	“
1 – Generator	“	“
1 – 36" Fan with vent bags	“	“
1 – Explosive magazine	“	“
2 – Portable toilets	“	“
2 – Front loaders	underground	
1- Mine truck	“	“
2 – Rock drills w/jack legs	“	“
1 – 36" Fan with vent bags	“	“

RECLAMATION COST ESTIMATION SUMMARY SHEET

This cost estimation summary sheet is provided to assist the operator and BLM in calculating the reclamation cost estimate. The summary sheet is designed to accompany the Reclamation Cost Checklist. The summary sheet is not all inclusive nor is it required.

Notice [] Plan of Operations []

BLM Case-file No. _____

Project Name: _____

Enter those values in the cost estimate that are appropriate to this project. All reclamation costs are to be calculated as third party contracts. This summary sheet is to be accompanied by a worksheet describing how each itemized cost was calculated.

A. EARTHWORK/RECONTOURING

ITEM	LABOR ¹	EQUIPMENT	MATERIALS	TOTAL
1. Roads	\$ 79.98	\$ 432.00	\$ 0	\$ 512.98
2. Drill Site(s)	\$ 0	\$ 0	\$ 0	\$ 0
3. Drill Hole Abandonment ²	\$ 37.80	\$ 150.00	\$ 34.55	\$ 222.35
4. Pits/Adits/Trenches	\$ 175.54	\$ 951.40	\$ 0	\$ 1126.94
5. Process Ponds	\$ 0	\$ 0	\$ 0	\$ 0
6. Heaps	\$ 0	\$ 0	\$ 0	\$ 0
7. Dumps (Waste & Landfill)	\$ 65.50	\$ 355.00	\$ 0	\$ 420.50
8. Tailings	\$ 0	\$ 0	\$ 0	\$ 0
9. Structure & Building Areas	\$ 0	\$ 0	\$ 0	\$ 0
10. Storage & Equipment Areas	\$ 0	\$ 0	\$ 0	\$ 0
11. Drainage Control	\$ 0	\$ 0	\$ 0	\$ 0
12. Mobilization/Demobilization	\$ 0	\$ 0	\$ 0	\$ 0
13. Miscellaneous ³	\$ 0	\$ 0	\$ 0	\$ 0
SUBTOTAL	\$ 358.82	\$ 1889.40	\$ 34.55	\$ 2282.87

B. REVEGETATION/STABILIZATION

ITEM	LABOR ¹	EQUIPMENT	MATERIALS	TOTAL
1. Roads	\$ 0	\$ 0	\$ 0	\$ 0
2. Drill Site(s)	\$ 0	\$ 0	\$ 0	\$ 0
3. Pits/Adits/Trenches	\$ 77.75	\$ 150.00	\$ 160.00	\$ 327.75
4. Process Ponds	\$ 0	\$ 0	\$ 0	\$ 0
5. Heaps	\$ 0	\$ 0	\$ 0	\$ 0
6. Dumps (Waste & Landfill)	\$ 77.00	\$ 160.00	\$ 160.00	\$ 337.00
7. Tailings	\$ 0	\$ 0	\$ 0	\$ 0
8. Structure & Building Areas	\$ 9.63	\$ 45.00	\$ 35.00	\$ 89.63
9. Storage & Equipment Areas	\$ 0	\$ 0	\$ 0	\$ 0
10. Drainage Control	\$ 0	\$ 0	\$ 0	\$ 0
11. Monitoring	\$ 125.00	\$ 200.00	\$ 0	\$ 425.00
12. Miscellaneous ³	\$ 0	\$ 0	\$ 0	\$ 0
SUBTOTAL	\$ 389.38	\$ 495.00	\$ 295.00	\$ 1179.38

C. DETOXIFICATION/WATER TREATMENT/DISPOSAL OF WASTES

ITEM	LABOR ¹	EQUIPMENT	MATERIALS	TOTAL
1. Process Ponds/Sludge	\$ 0	\$ 0	\$ 0	\$ 0
2. Heaps	\$ 0	\$ 0	\$ 0	\$ 0
3. Dumps (Waste & Landfill)	\$ 0	\$ 0	\$ 0	\$ 0
4. Tailings	\$ 0	\$ 0	\$ 0	\$ 0
5. Surplus Water Disposal	\$ 0	\$ 0	\$ 0	\$ 0
6. Fluid Management ⁴	\$ 0	\$ 0	\$ 0	\$ 0
7. Monitoring	\$ 0	\$ 0	\$ 0	\$ 0
8. Miscellaneous ³	\$ 0	\$ 0	\$ 0	\$ 0
SUBTOTAL	\$ 0	\$ 0	\$ 0	\$ 0

D. STRUCTURE, EQUIPMENT AND FACILITY REMOVAL	LABOR ¹ \$ 194.25	EQUIPMENT \$ 550.00	MATERIALS \$ 0	TOTAL \$ 744.25
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E. HAZARDOUS MATERIALS ⁵	LABOR ¹ \$ 0	EQUIPMENT \$ 0	MATERIALS \$ 0	TOTAL \$ 0
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F. MITIGATION ⁶	LABOR ¹ \$ 0	EQUIPMENT \$ 0	MATERIALS \$ 0	TOTAL \$ 0
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G. SUBTOTAL - OPERATIONAL & MAINTENANCE COSTS (A through F)	\$ 942.45	\$ 2 934.40	\$ 329.55	\$ 4 206.50
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H. ADMINISTRATIVE COSTS

1. Engineering, Design and Construction (ED&C) Plan ⁷	\$ 0
2. Contingency ⁸	\$ 0
3. Insurance ⁹ (On Site Liability)	\$ 0
4. Bond ¹⁰ (Performance and Payment)	\$ 0
5. Contractor Profit ¹¹	\$ 0
6. BLM Contract Administration ¹²	\$ 0
7. BLM Indirect Cost ¹³	\$ 0
SUBTOTAL	\$ 0

I. GRAND TOTAL (G and H)	\$ 0
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Attach sources/information used in cost estimate (examples: Caterpillar Performance Handbook, contractor's estimate, BLM state office procurement analyst, etc.).

250 24, 25

RECLAMATION COST ESTIMATION SUMMARY SHEET
ATTACHMENT:

The equipment used in the estimation of cost to reclaim the mine site are as follows;

1. D-8 Cat this is the workhorse of heavy construction projects. There is only one mobilization and demobilization for the reclamation project. It is added to the A. Earthwork/Recontouring Item 1. Roads. It is to be used to back fill the adits, slope the waste dumps and back drag the roads. The production data is from the Caterpillar Production Handbook #38, page 1-44. D8 Cat pushing 300feet = 400 lcu yds per hour. The \$71 per hr operating cost is also from the handbook.
2. Medium tractor with disc this will be used to prepare sloped areas for seeding. \$195 per day price information from Howe Rental co. Salt Lake City, Utah. There is only one mobilization and demobilization for the reclamation project. It is added to B. Revegetation/Stabilization Item 3. Adits.
3. Service truck with cutting torch and welder estimate. There is only one mobilization and demobilization for the reclamation project. It is added to A. Earthwork/Recontouring Item 3. Drill hole.
4. Pickup truck to tow trailers to Price, Utah. Pickup will also transport equipment operator, laborer, mason and supplies. There will be several mobilization and demobilization for the reclamation project, which are projected as trips from Price, Utah to the mine site and back. These trips will be added to D. Structure, Equipment and facility Removal.

Labor wage rates are from the U.S. Department of Labor web site for heavy construction projects in Emery County, Utah. It lists the Davis Bacon wages for the following occupations;

- | | |
|----------------------|--|
| 1. Laborer | - \$ 7.65hr + \$1.60hr fringes = \$ 9.25hr |
| 2. Dozer Operator | = \$13.10hr |
| 3. Mason | = \$11.52hr |
| 4. Welder/Pipefitter | = \$12.60hr |
| 5. Truck Driver | = \$ 9.42hr |
| 6. Backhoe Operator | = \$10.00hr |

RECLAMATION COST ESTIMATION SUMMARY SHEET
ATTACHMENT CONTINUED:

B. REVEGETATION/STABILIZATION:

3. ADITS;

Medium farm tractor with disc to dress adit area prior to seeding.

Tractor with disc \$195 per day rental – 2hrs \$ 50.00

Backhoe Operator to drive tractor 3hrs \$ 30.00

Labor to spread seed 3hrs \$ 27.75

Range land seed to seed 1 acre – Steve Ragan Seed Co SLC, Utah \$100.00

Mobilization from Price, Utah to mine site

Pickup truck to tow trailer 1hr \$ 50.00

Backhoe Operator to drive pickup truck 1hr \$ 10.00

Demobilization from mine site to Price, Utah

Pickup Truck to tow trailer 1hr \$ 50.00

Backhoe Operator to drive pickup truck 1hr \$ 10.00

Adits Total – Labor \$77.75 – Equipment \$150.00 – Materials \$100.00

6. DUMPS;

Tractor with disc 4hrs \$100.00

Backhoe Operator to drive tractor 4hrs \$ 40.00

Labor to spread seed 4hrs \$ 37.00

Seed for 1.25 acres \$ 160.00

Dumps Total – Labor \$77.00 – Equipment \$100.00 – Materials \$160.00

8. STRUCTURE AREA;

Tractor with disc 1/2hr \$ 45.00

Backhoe Operator 1/2hr \$ 5.00

Labor to spread seed 1/2hr \$ 4.63

Seed for .25 acres \$ 35.00

Structure Area Total – Labor \$9.63 – Equipment - \$45.00 – Materials \$35.00

11. MONITORING;

1 BLM employee to drive from Price, Utah to mine site to observe discing
and seeding return to Price, Utah 10 hrs \$ 250.00

Pickup truck 10 hrs \$ 200.00

Monitoring Total Labor \$250.00 – Equipment \$200.00 – Materials \$0.00

RECLAMATION COST ESTIMATION SUMMARY SHEET
ATTACHMENT CONTINUED:

1. ROADS;

D8 Cat back dragging 2,000 feet of Emery County Roads 3hrs.	\$ 213.00
Cat Operator 3hrs	\$ 39.30
Mobilization from Price, Utah to mine site	
Truck driver 1hr to load transport trailer	\$ 9.42
Truck driver 1hr to drive to mine site	\$ 9.42
Semi truck and trailer 1hr	\$ 110.00
Demobilization from mine site to Price, Utah	
Truck driver 1hr to load transport trailer	\$ 9.42
Truck driver 1hr to drive from mine site to Price, Utah	\$ 9.42
Semi truck and trailer 1hr	\$ 110.00

Roads Total – Labor \$79.98 - Equipment \$433.00 - Materials \$0.00

3. DRILL HOLES;

Welder to weld cover on calyx hole 1hr	\$ 12.60
Service truck 1hr	\$ 50.00
Material 1- 3/8" X 24" X 24" flat plate steel	\$ 34.55
Mobilization from Price, Utah to mine site	
Welder to drive service truck 1hr	\$ 12.60
Service truck 1hr	\$ 50.00
Demobilization from mine site to Price, Utah	
Welder to drive service truck 1hr	\$ 12.60
Service truck 1hr	\$ 50.00

Drill Holes Total – Labor \$37.80 – Equipment \$150.00 – Materials \$34.55

5. ADITS;

D8 Cat to back fill two adits – 5,366cu yds divided by 400cu yds per hr = 13.4hrs	
D8 Cat 13.4hrs X \$71per hr =	\$ 951.40
Cat Operator 13.4hrs X 13.10hr =	\$ 175.54

Adits Total – Labor \$175.54 – Equipment \$951.40 – Materials \$0.00

7. DUMPS;

D8 Cat to slope two waste dumps – 1,636cu yds – 5hrs	
D8 Cat 5hrs X \$71per hr =	\$ 355.00
Cat Operator 5hrs X 13.10hr =	\$ 65.50

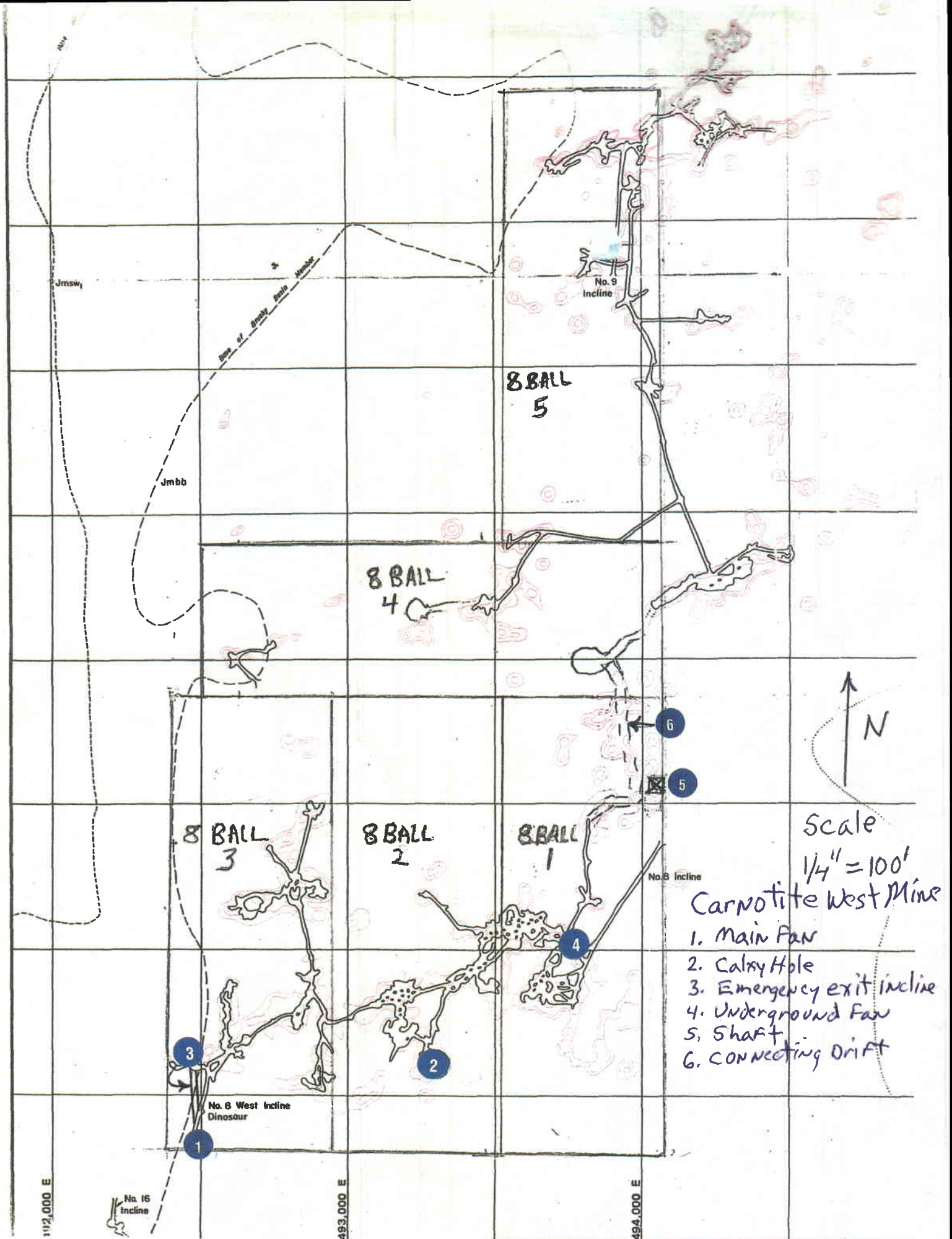
Dumps Total – Labor \$65.50 – Equipment \$355.00 – Materials \$0.00

RECLAMATION COST ESTIMATION SUMMARY SHEET
ATTACHMENT:

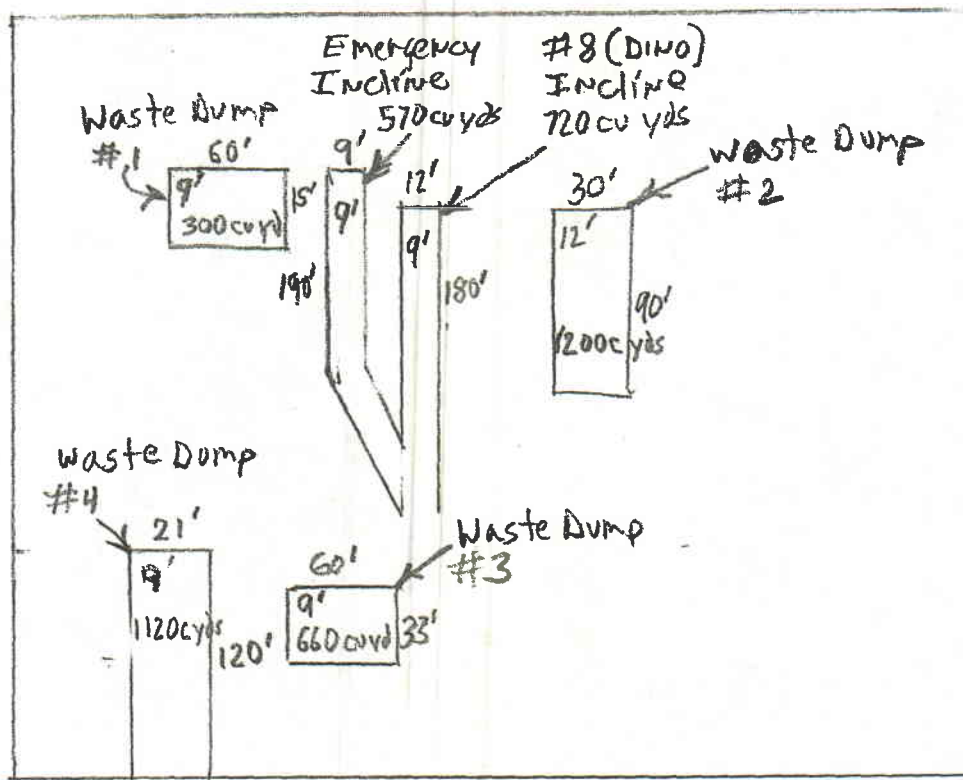
D. STRUCTURE, EQUIPMENT AND FACILITY REMOVAL;

Pickup truck to tow office trailer from mine site to Price, Utah	
Pickup truck 3hrs	\$ 50.00
Labor to drive truck and hook up trailer 3hrs	\$ 27.75
Pickup truck to tow miner's change trailer from mine site to Price, Utah	
Pickup truck 3hrs	\$ 50.00
Labor to drive truck and hook up trailer 3hrs	\$ 27.75
Pickup truck to tow water tank trailer from mine site to Price, Utah	
Pickup truck 3hrs	\$ 50.00
Labor to drive truck and hook up trailer 3hrs	\$ 27.75
Pickup truck to tow gray water tank trailer from mine site to Price, Utah	
Pickup truck 3hrs	\$ 50.00
Labor to drive truck and hook up trailer 3hrs	\$ 27.75
Pickup truck to tow trailer with skid loader from mine site to Price, Utah	
Pickup truck 3hrs	\$ 50.00
Labor to drive truck and hook up trailer 3hrs	\$ 27.75
Pickup truck to tow trailer with skid loader from mine site to Price, Utah	
Pickup truck 3hrs	\$150.00
Labor to drive truck and hook up trailer 3hrs	\$ 27.75
Pickup truck to tow trailer with mine truck from mine site to Price, Utah	
Pickup truck 3hrs	\$150.00
Labor to drive truck and hook up trailer 3hrs	\$ 27.75
Rental companies remove compressor, generator, fuel tank, explosive magazine, And portable toilets per rental contracts	\$ 0.00

Structures Total – Labor \$194.25 – Equipment \$550.00 – Materials \$0.00



Drawing #1 mine Site At Beginning of mining



Mine Site At End of Mining

